

Storm Data and Unusual Weather Phenomena - November 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
(IL-Z075) JEFFERSON, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	11/04/11 22:00 CST	0		Dense Fog
	11/05/11 10:00 CST	0		
Widespread dense fog reduced visibility to one-quarter mile or less, except over the Wabash Valley region. The dense fog occurred on the back side of a surface high pressure center as it retreated across the upper Ohio Valley.				
(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	11/11/11 00:00 CST	0		Frost/Freeze
	11/11/11 08:00 CST	0		
The first freeze of the season brought the growing season to an end. High pressure moved east across the Mississippi Valley, accompanied by clear skies and light winds.				
(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	11/13/11 04:00 CST	26K		Strong Wind (MAX 49 kt)
	11/13/11 16:00 CST	0		
The pressure gradient between lower pressures in the central Plains and high pressure in the southeast U.S. resulted in strong southwest winds. The peak wind gust was 56 mph, measured at the Carbondale airport. Most peak wind gusts at other observing sites in southern Illinois were from 45 to 51 mph. The strong winds contributed to the spread of a brush fire in Giant City State Park in Makanda, which is near Carbondale. About three acres burned in the fire, which was started by a downed power line. The wind also brought down a few tree limbs and power lines in various counties, including Hamilton, Franklin, and Williamson. In Williamson County, one lane of Illinois Route 13 was blocked for a short time, and there were a few scattered power outages.				
PULASKI COUNTY --- 0.6 W PULASKI [37.22, -89.21], 1.0 N ULLIN [37.28, -89.18]				
	11/14/11 17:25 CST	15K		Thunderstorm Wind (EG 56 kt)
	11/14/11 17:25 CST	0		Source: Emergency Manager
A couple of trees were blown down on U.S. Highway 51, north of Pulaski and north of Ullin. Metal sheeting from a grain bin was blown onto railroad tracks at Pulaski.				
JOHNSON COUNTY --- 2.6 NW CROSSROADS [37.38, -88.85]				
	11/14/11 17:55 CST	0		Hail (1.00 in)
	11/14/11 17:55 CST	0		Source: Broadcast Media
Quarter-sized hail occurred along Interstate 24 near mile marker 22.				
Thunderstorms gradually increased in coverage and intensity during the afternoon along a weakly convergent cold front moving through the area. The warm sector air mass was characterized by temperatures in the mid to upper 70's, dew points in the lower 60's, and mixed-layer cape values of 1000 to 1500 j/kg. Very strong deep layer wind shear promoted organized storm structures. A bowing line segment moved rapidly east across the Mississippi River, then produced isolated wind damage in the southern tip of Illinois.				
JOHNSON COUNTY --- 0.5 E VIENNA [37.42, -88.89], SIMPSON [37.47, -88.75]				
	11/20/11 23:29 CST	50K		Hail (1.75 in)
	11/20/11 23:43 CST	0		Source: Trained Spotter
Nickel to quarter-size hail occurred in Vienna, especially on the east side of town. The hail swath continued northeast to the Pope County line near Simpson, where golf-ball size hail was reported. Thousands of dollars in damage occurred to vehicles in Johnson County, according to several residents. Numerous vehicles were damaged from the Vienna area north and east along the track of the hailstorm.				
POPE COUNTY --- EDDYVILLE [37.50, -88.58]				
	11/20/11 23:55 CST	0		Hail (0.75 in)
	11/20/11 23:55 CST	0		Source: Public

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
POPE COUNTY --- 2.0 N EDDYVILLE [37.53, -88.58]				
	11/20/11 23:59 CST		0	Hail (1.75 in)
	11/20/11 23:59 CST		0	Source: Public
A swath of large hail occurred in the Eddyville area. The swath of largest hail passed a couple of miles to the north of the community.				
Isolated thunderstorms with large hail developed on the north side of a strong cold front that extended from western Kentucky into eastern Arkansas. The storms were elevated above a shallow layer of cool air behind the cold front.				
(IL-Z078) WABASH, (IL-Z083) WHITE, (IL-Z087) GALLATIN, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	11/24/11 20:00 CST		0	Dense Fog
	11/25/11 04:00 CST		0	
Dense fog reduced visibility to one-quarter mile or less across extreme southeast Illinois, in those counties bordering the Wabash and Ohio Rivers. The fog formed shortly after sunset, immediately after skies cleared out. The combination of clear skies and light winds promoted the rapid development of shallow dense fog.				
GALLATIN COUNTY --- SHAWNEETOWN [37.70, -88.13], 3.0 ENE SHAWNEETOWN [37.72, -88.08], 2.8 NE SHAWNEETOWN [37.73, -88.09], 0.5 NNW SHAWNEETOWN [37.71, -88.13]				
	11/28/11 09:00 CST		0	Flood (due to Heavy Rain)
	11/30/11 23:59 CST		0	Source: River/Stream Gage
At the Shawneetown river gage, the Ohio River rose above flood stage on the 28th. Minor flooding of low-lying fields and boat launches occurred.				
FRANKLIN COUNTY --- 1.4 SE ZEIGLER [37.89, -89.03], 0.5 NW ZEIGLER JCT [37.93, -89.03], 1.1 W ORIENT [37.92, -89.00], 0.9 WNW PLUMFIELD [37.89, -89.02]				
	11/30/11 08:00 CST		0	Flood (due to Heavy Rain)
	11/30/11 23:59 CST		0	Source: River/Stream Gage
At the Plumfield river gage, the Big Muddy River rose above flood stage on the 30th. Minor flooding of low-lying fields occurred.				
Several storm systems brought very heavy rainfall to the region during the second half of the month. Paducah, KY recorded exactly 10 inches for the month of November, which was the third highest total on record for November. The monthly total at Evansville, IN was 8.32 inches, making it the fourth wettest November. A couple of rivers in southern Illinois went above flood stage by the end of the month.				
(IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	11/29/11 05:45 CST		0	Winter Weather
	11/29/11 11:45 CST		0	
A narrow band of heavy snow, accompanied by thunder and lightning, became nearly stationary over extreme southern Illinois. The thundersnow extended from Vienna southwest across Grand Chain into extreme western Kentucky. For a few hours, visibility fell below one-half mile as snowfall rates averaged around an inch per hour. Despite surface temperatures at or near freezing, roads became covered with snow and slush. Numerous accidents were reported. The public reported five cars off Interstate 24 northwest of Vienna. Snowfall totals included 3 inches at Joppa (Massac County) and Goreville (Johnson County), 2 inches at Karnak (Pulaski County) and Vienna (Johnson County), and 4 inches at Ozark (Johnson County). Somewhat lesser amounts from 1 to 2 inches occurred in portions of Pope County. The intense snow band occurred in association with a strong upper-level low as it lifted northeast from Middle Tennessee toward eastern Kentucky.				
INDIANA, Southwest				
(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER				
	11/11/11 00:00 CST		0	Frost/Freeze
	11/11/11 08:00 CST		0	
The first freeze of the season brought the growing season to an end. High pressure moved east across the Mississippi Valley, accompanied by clear skies and light winds.				
(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/13/11 04:00 CST		6K	Strong Wind (MAX 41 kt)
	11/13/11 16:00 CST		0	

The pressure gradient between lower pressures in the central Plains and high pressure in the southeast U.S. resulted in strong southwest winds. The peak wind gust was 47 mph, measured at the Evansville airport.

VANDERBURGH COUNTY --- 2.0 S ARMSTRONG [38.09, -87.65], (EVV)DRESS ARPT EVAN [38.03, -87.53]				
	11/14/11 18:05 CST		20K	Thunderstorm Wind (MG 54 kt)
	11/14/11 18:13 CST		0	Source: ASOS

A wind gust to 62 mph was measured by the automated observing system at the Evansville airport. Just south of Armstrong, a 75-by-4 foot section of a metal roof on a fire station was peeled back.

Thunderstorms gradually increased in coverage and intensity during the afternoon along a weakly convergent cold front moving through the area. The warm sector air mass was characterized by temperatures in the mid to upper 70's, dew points in the lower 60's, and mixed-layer cape values of 1000 to 1500 j/kg. Very strong deep layer wind shear promoted organized storm structures. A bowing line segment organized near the Wabash River, then produced isolated damaging wind gusts as it crossed southwest Indiana.

VANDERBURGH COUNTY --- 1.0 WSW BELKNAP [37.98, -87.70], EVANSVILLE [37.98, -87.55]				
	11/21/11 00:30 CST		0	Hail (0.75 in)
	11/21/11 00:34 CST		0	Source: Trained Spotter

A swath of dime-size hail occurred from the Posey County line eastward into Evansville.

Isolated thunderstorms with large hail developed on the north side of a strong cold front that extended from western Kentucky into eastern Arkansas. The storms were elevated above a shallow layer of cool air behind the cold front.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER				
	11/24/11 21:00 CST		0	Dense Fog
	11/25/11 04:00 CST		0	

Dense fog reduced visibility to one-quarter mile or less across much of southwest Indiana. The fog formed shortly after sunset, immediately after skies cleared out. The combination of clear skies and light winds promoted the rapid development of shallow dense fog.

WARRICK COUNTY --- 0.7 S NEWBURGH [37.94, -87.42], 2.1 ESE NEWBURGH [37.93, -87.39], 2.1 ESE NEWBURGH [37.94, -87.38], 0.5 SE NEWBURGH [37.94, -87.41]				
	11/27/11 11:00 CST		0	Flood (due to Heavy Rain)
	11/30/11 23:59 CST		0	Source: River/Stream Gage

At the Newburgh river gage, the Ohio River rose above flood stage on the 27th. Minor flooding of low-lying fields and woodlands occurred.

POSEY COUNTY --- 1.0 SSW MT VERNON [37.92, -87.91], 1.1 SW MT VERNON [37.92, -87.91], 0.5 SW MT VERNON [37.93, -87.91], 0.4 S MT VERNON [37.92, -87.90]				
	11/28/11 12:00 CST		0	Flood (due to Heavy Rain)
	11/30/11 23:59 CST		0	Source: River/Stream Gage

At the Mount Vernon river gage, the Ohio River rose above flood stage on the 28th. Minor flooding of low-lying fields and woodlands occurred.

PIKE COUNTY --- 0.9 NNW PETERSBURG [38.51, -87.29], 1.7 NNE PETERSBURG [38.52, -87.27], 1.6 NE PETERSBURG [38.52, -87.26], 0.7 NNW PETERSBURG [38.51, -87.28]				
	11/29/11 19:15 EST		0	Flood (due to Heavy Rain)
	11/30/11 23:59 EST		0	Source: River/Stream Gage

At the Petersburg river gage, the White River rose above flood stage just before the end of the month. Very minor flooding of lowland fields occurred.

GIBSON COUNTY --- 1.8 NE HAZLETON [38.50, -87.51], 1.3 N HAZLETON [38.50, -87.53], 1.9 N HAZLETON [38.51, -87.54], 1.0 NNW HAZLETON [38.49, -87.54]				
	11/30/11 03:00 CST		0	Flood (due to Heavy Rain)
	11/30/11 23:59 CST		0	Source: River/Stream Gage

At the Hazleton river gage, the White River rose above flood stage just before the end of the month. Very minor flooding of lowland fields occurred.

Several storm systems brought very heavy rainfall to the region during the second half of the month. Paducah, KY recorded exactly 10

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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inches for the month of November, which was the third highest total on record for November. The monthly total at Evansville, IN was 8.32 inches, making it the fourth wettest November. The Ohio and White Rivers went above flood stage by the end of the month.

KENTUCKY, Southwest

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCracken, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

11/04/11 22:00 CST	0	Dense Fog
11/05/11 10:00 CST	0	

Widespread dense fog reduced visibility to one-quarter mile or less. The dense fog occurred on the back side of a surface high pressure center as it retreated across the upper Ohio Valley.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCracken, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

11/11/11 00:00 CST	0	Frost/Freeze
11/11/11 08:00 CST	0	

The first freeze of the season brought the growing season to an end. High pressure moved east across the Mississippi Valley, accompanied by clear skies and light winds.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCracken, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

11/13/11 04:00 CST	22K	Strong Wind (MAX 42 kt)
11/13/11 16:00 CST	0	

The pressure gradient between lower pressures in the central Plains and high pressure in the southeast U.S. resulted in strong southwest winds. The peak wind gust was 48 mph, measured at the Henderson airport. Most peak wind gusts at other observing sites in western Kentucky were from 42 to 47 mph.

BALLARD COUNTY --- 0.9 N MONKEYS EYEBROW [37.19, -88.98]

11/14/11 17:45 CST	10K	Thunderstorm Wind (EG 52 kt)
11/14/11 17:45 CST	0	Source: Emergency Manager

A structure that was under construction was blown down. The structure appeared to be a wooden barn or storage building, and the walls did not appear to have been put up yet.

CRITTENDEN COUNTY --- TOLU [37.43, -88.25]

11/14/11 18:30 CST	4K	Thunderstorm Wind (EG 52 kt)
11/14/11 18:30 CST	0	Source: Public

Several trees were blown down.

HENDERSON COUNTY --- 1.0 SW BASKETT [37.86, -87.48]

11/14/11 19:08 CST	10K	Lightning
11/14/11 19:08 CST	0	Source: Emergency Manager

Lightning struck a vacant house on U.S. Highway 60, starting a fire. The fire was mainly confined to the outside walls of the house.

Thunderstorms gradually increased in coverage and intensity during the afternoon along a weakly convergent cold front moving through the area. The warm sector air mass was characterized by temperatures in the mid to upper 70's, dew points in the lower 60's, and mixed-layer cape values of 1000 to 1500 j/kg. Very strong deep layer wind shear promoted organized storm structures. A bowing line segment that raced east-northeast across southern Illinois clipped Ballard County, KY, where there was isolated wind damage.

UNION COUNTY --- UNIONTOWN [37.77, -87.93]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	11/21/11 00:10 CST		0	Hail (1.00 in)
	11/21/11 00:10 CST		0	Source: Trained Spotter

CALLOWAY COUNTY --- PENNY [36.65, -88.35]

11/21/11 00:45 CST	0	Hail (0.75 in)
11/21/11 00:45 CST	0	Source: Public

There were a couple of reports of dime-size hail.

Isolated thunderstorms with large hail developed on the north side of a strong cold front that extended from western Kentucky into eastern Arkansas. The storms were elevated above a shallow layer of cool air behind the cold front.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCrackEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

11/24/11 20:00 CST	0	Dense Fog
11/25/11 04:00 CST	0	

Dense fog reduced visibility to one-quarter mile or less across much of western Kentucky. The fog formed shortly after sunset, immediately after skies cleared out. The combination of clear skies and light winds promoted the rapid development of shallow dense fog.

(KY-Z001) FULTON

11/29/11 05:45 CST	0	Heavy Snow
11/29/11 10:45 CST	0	

(KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCrackEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON

11/29/11 05:45 CST	0	Winter Weather
11/29/11 11:45 CST	0	

A narrow band of heavy snow, accompanied by thunder and lightning, became nearly stationary over the Mississippi River counties of western Kentucky. For a few hours, visibility fell below one-half mile as snowfall rates averaged around an inch per hour. Despite surface temperatures at or near freezing, roads became covered with snow and slush. Numerous accidents were reported. There were 12 to 15 accidents in Hickman County. In Ballard County, a school bus slid off the road. At least two tractor-trailer rigs slid off U.S. Highway 60 in Ballard County. Snowfall amounts included: 2 inches at Bandana and Kevil (both in Ballard County), 4 inches at Fulton (Fulton County) and Wickliffe (Ballard County), 3 inches at LaCenter (Ballard County) and Burna (Livingston County), and 2 inches at Hickman (Fulton County). Somewhat lesser amounts from 1 to 2 inches occurred in far western parts of McCracken and Graves Counties. The intense snow band occurred in association with a strong upper-level low as it lifted northeast from Middle Tennessee toward eastern Kentucky.

MUHLENBERG COUNTY --- PARADISE [37.27, -86.98], 0.3 WSW PARADISE [37.27, -86.99], 1.2 NNW PARADISE [37.29, -86.99], 1.1 N PARADISE [37.29, -86.98]

11/29/11 16:00 CST	0	Flood (due to Heavy Rain)
11/30/11 23:59 CST	0	Source: River/Stream Gage

The Green River rose above flood stage on the Paradise river gage on the 29th. Minor flooding of low-lying fields took place.

UNION COUNTY --- 0.8 WNW UNIONTOWN [37.78, -87.94], 1.9 NNE UNIONTOWN [37.80, -87.92], 1.6 NNE UNIONTOWN [37.79, -87.92], 0.6 NNW UNIONTOWN [37.78, -87.93]

11/30/11 09:00 CST	0	Flood (due to Heavy Rain)
11/30/11 23:59 CST	0	Source: River/Stream Gage

At J.T. Myers Lock and Dam near Uniontown, the Ohio River rose above flood stage on the 30th. Minor flooding of low-lying fields occurred.

Several storm systems brought very heavy rainfall to the region during the second half of the month. Paducah, KY recorded exactly 10 inches for the month of November, which was the third highest total on record for November. The monthly total at Evansville, IN was 8.32 inches, making it the fourth wettest November. A couple of rivers in western Kentucky went above flood stage by the end of the month.

MISSOURI, Southeast

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID				
	11/04/11 22:00 CST		0	Dense Fog
	11/05/11 10:00 CST		0	
Widespread dense fog reduced visibility to one-quarter mile or less, except over the Ozark foothills. The dense fog occurred on the back side of a surface high pressure center as it retreated across the upper Ohio Valley.				
BUTLER COUNTY --- POPLAR BLUFF [36.75, -90.40]				
	11/08/11 19:10 CST		0	Heavy Rain
	11/08/11 21:10 CST		0	Source: Unknown
Low-lying street flooding was reported in Poplar Bluff. At the Poplar Bluff airport, nearly 1.5 inches of rain was measured in three hours. The rainfall total for the day was 2.44 inches at the airport.				
The mean atmospheric flow became southwest ahead of a storm system that passed east across the mid-Mississippi Valley. The southwest flow allowed abundant moisture to stream across the region directly from the Pacific Ocean. Showers and a few isolated thunderstorms occurred, including some with very heavy rainfall.				
(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID				
	11/11/11 00:00 CST		0	Frost/Freeze
	11/11/11 08:00 CST		0	
The first freeze of the season brought the growing season to an end. High pressure moved east across the Mississippi Valley, accompanied by clear skies and light winds.				
(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID				
	11/13/11 04:00 CST		11K	Strong Wind (MAX 39 kt)
	11/13/11 16:00 CST		0	
The pressure gradient between lower pressures in the central Plains and high pressure in the southeast U.S. resulted in strong southwest winds. Peak wind gusts at airport observing sites in southeast Missouri were near 45 mph.				
CAPE GIRARDEAU COUNTY --- (CGI)CAPE GIRARDEAU [37.23, -89.57]				
	11/14/11 16:58 CST		5K	Thunderstorm Wind (MG 54 kt)
	11/14/11 16:58 CST		0	Source: ASOS
A wind gust to 62 mph was measured by the Cape Girardeau airport automated observing system. There was a report of minor window and door damage.				
BUTLER COUNTY --- 3.1 WSW POPLAR BLUFF [36.73, -90.45]				
	11/14/11 17:32 CST		0	Hail (1.00 in)
	11/14/11 17:32 CST		0	Source: Trained Spotter
Quarter-sized hail fell near the junction of U.S. Highway 67 and Highway M.				
Thunderstorms gradually increased in coverage and intensity during the afternoon along a weakly convergent cold front moving through the area. The warm sector air mass was characterized by temperatures in the mid to upper 70's, dew points in the lower 60's, and mixed-layer cape values of 1000 to 1500 j/kg. Very strong deep layer wind shear promoted organized storm structures. A bowing line segment organized east of Poplar Bluff, then produced isolated wind damage as it moved toward the Mississippi River.				
(MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID				
	11/25/11 01:00 CST		0	Dense Fog
	11/25/11 06:00 CST		0	
Dense fog reduced visibility to one-quarter mile or less across parts of southeast Missouri, mainly along and south of a Poplar Bluff to Sikeston line. The fog formed shortly after sunset, immediately after skies cleared out. The combination of clear skies and light winds promoted the rapid development of shallow dense fog.				
(MO-Z086) BOLLINGER, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD				
	11/28/11 18:00 CST		0	Winter Weather
	11/29/11 06:00 CST		0	

Storm Data and Unusual Weather Phenomena - November 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(MO-Z114) NEW MADRID				
	11/28/11 18:00 CST		0	Heavy Snow
	11/29/11 08:00 CST		0	

Areas of moderate to heavy snow occurred over parts of southeast Missouri, mainly west of a line from Marble Hill to New Madrid. Snow and slush accumulated on roadways despite surface temperatures near freezing. Six inches of snow was the highest amount, which occurred in New Madrid County at Gideon. Two inches of snow accumulated at Ellsinore (in Carter County) and seven miles northwest of Poplar Bluff. A trained spotter in Stoddard County reported two inches of snow eight miles west of Dexter. A few cars were sliding off roads in Bollinger County. The snow occurred in association with a strong upper-level low as it lifted northeast across the Tennessee Valley.